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Database: US Pre-Grant Publication Full-Text Database; US Patents Full-Text Database; US OCR Full-Text Database; EPO Abstracts Database; JPO Abstracts Database; Derwent World Patents Index; IBM Technical Disclosure Bulletins

Search: L7

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Search History

DATE: Sunday, July 24, 2005 Printable Copy Create Case

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DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L7	l5 and L6	2	L7
L6	course adj correction	1312	L6
L5	l3 and L4	16	L5
L4	presence or absence	2367772	L4
L3	l1 and L2	38	L3
L2	host adj vehicle	1302	L2
L1	lane adj deviat$	409	L1

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Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 20050096827 A1

L11: Entry 1 of 3 File: PGPB May 5, 2005

PGPUB-DOCUMENT-NUMBER: 20050096827
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050096827 A1

TITLE: Lane departure prevention apparatus

PUBLICATION-DATE: May 5, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sadano, On	Atsugi-shi		JP	
Uemura, Yoshitaka	Kawasaki-shi		JP	
Ozaki, Masahiro	Yokohama-shi		JP	

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	COUNTRY	TYPE CODE
Nissan Motor Co., Ltd.	Yokohama		JP	03

APPL-NO: 10/ 960706 [PALM]
DATE FILED: October 8, 2004

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
JP	JP 2003-369447	2003JP-JP 2003-369447	October 29, 2003
JP	JP 2003-388209	2003JP-JP 2003-388209	November 18, 2003
JP	JP 2003-412061	2003JP-JP 2003-412061	December 10, 2003

INT-CL: [07] G06 F 19/00

US-CL-PUBLISHED: 701/070; 701/001
US-CL-CURRENT: 701/70; 701/1

REPRESENTATIVE-FIGURES: 2

ABSTRACT:

A lane departure prevention apparatus is configured to conduct a course correction in a lane departure avoidance direction when the controller 8 determines that there is a potential for a vehicle to depart from a driving lane. The controller 8 combines yaw control and deceleration control to conduct departure prevention control to avoid lane departure. The yaw control is not actuated if the opposite direction from the steering direction coincides with the lane departure direction (steps S10 and S11). Preferably, the controller 8 sets the timing of yaw moment and the deceleration of the vehicle on the basis of the acceleration or deceleration of

the vehicle, and performs braking control so that these settings are achieved (steps S7 to S9). Preferably, the controller 8 calculates the target yaw moment in the lane departure-avoidance direction on the basis of the running state of the vehicle, and calculates the deceleration amount by taking into account the driver braking operation amount.

2. Document ID: US 20050096826 A1

L11: Entry 2 of 3 File: PGPB May 5, 2005

PGPUB-DOCUMENT-NUMBER: 20050096826
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050096826 A1

TITLE: Lane departure prevention apparatus

PUBLICATION-DATE: May 5, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Iwasaka, Takeshi	Zama-shi		JP	
Ozaki, Masahiro	Yokohama-shi		JP	
Uemura, Yoshitaka	Kawasaki-shi		JP	

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	COUNTRY	TYPE CODE
Nissan Motor Co., Ltd.	Yokohama		JP	03

APPL-NO: 10/ 960703 [PALM]
DATE FILED: October 8, 2004

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
JP	JP 2003-372852	2003JP-JP 2003-372852	October 31, 2003
JP	JP 2003-419053	2003JP-JP 2003-419053	December 17, 2003

INT-CL: [07] G06 F 19/00

US-CL-PUBLISHED: 701/070; 701/001
US-CL-CURRENT: 701/70; 701/1

REPRESENTATIVE-FIGURES: 1

ABSTRACT:

A lane departure prevention apparatus is configured to conduct a course correction in a lane departure avoidance direction when the controller determines that there is a potential for a vehicle to depart from a driving lane. The controller combines yaw control and deceleration control to conduct departure prevention control in accordance with the lane departure condition and the running condition. Preferably, a target yaw moment in a lane departure avoidance direction is calculated which takes in consideration the running condition of the vehicle such as disturbances changing the vehicle behavior and the road surface friction coefficient of the driving lane, and a deceleration amount of a necessary minimum for suppressing a feeling of

discomfort in the passengers stemming from the yaw moment provided to the vehicle is calculated based on the basis of the running condition of the vehicle.

☐ 3. Document ID: US 20040098197 A1

L11: Entry 3 of 3 File: PGPB May 20, 2004

PGPUB-DOCUMENT-NUMBER: 20040098197
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040098197 A1

TITLE: Automotive lane deviation avoidance system

PUBLICATION-DATE: May 20, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Matsumoto, Shinji	Kanagawa		JP	
Naito, Genpei	Yokohama		JP	
Tange, Satoshi	Kanagawa		JP	

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	COUNTRY	TYPE CODE
NISSAN MOTOR CO., LTD.				03

APPL-NO: 10/ 693946 [PALM]
DATE FILED: October 28, 2003

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
JP	2002-336634	2002JP-2002-336634	November 20, 2002

INT-CL: [07] G08 G 1/16

US-CL-PUBLISHED: 701/301; 701/096, 340/903
US-CL-CURRENT: 701/301; 340/903, 701/96

REPRESENTATIVE-FIGURES: 1

ABSTRACT:

In an automotive lane deviation avoidance system that prevents a host vehicle from deviating from its driving lane by correcting the host vehicle's course in a direction that avoids the host vehicle's lane deviation in the presence of a possibility of the host vehicle's lane deviation, the system calculates a desired yawing moment needed to avoid the host vehicle's lane deviation from the driving lane. The system compensates for the desired yawing moment by a correction factor or a gain, which is determined based on a throttle opening of the host vehicle.

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Terms	Documents
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